

## Published ribosome profiling datasets used for uORF identification

Strain	Relevant genotype	Growth conditions	Source	GEOAccession Number
<b><i>tif1-ts</i> experiment</b>				
NSY20	<i>TIF1</i>	SC, 30°C	(Sen et al. 2015)	GSM1622004, GSM1622005
		SC, 30°C to 37°C shift	(Sen et al. 2015)	GSM1622012, GSM1622013
NSY21	<i>tif1-A79V</i>	SC, 30°C	(Sen et al. 2015)	GSM1622006, GSM1622007
		SC, 30°C to 37°C shift	(Sen et al. 2015)	GSM1622014, GSM1622015
<b><i>ded1-cs</i> experiment</b>				
NSY4	<i>DED1</i>	SC, 30°C to 15°C shift	(Sen et al. 2015)	GSM1621988, GSM1621989
NSY5	<i>ded1-120</i>	SC, 30°C to 15°C shift	(Sen et al. 2015)	GSM1621990, GSM1621991
<b><i>dom34Δ</i> experiment</b>				
YNG100	<i>ski2Δ</i>	YPD, 30°C	(Guydosh and Green 2014)	GSM1279568
YNG103	<i>dom34Δ/ski2Δ</i>	YPD, 30°C	(Guydosh and Green 2014)	GSM1279569
<b>Rli1 depletion experiment</b>				
YDY128	WT	YPD, 30°C	(Young et al. 2015)	GSM1700885
YDY130	<i>P<sub>GAL</sub>-UBI-R-FH-RLI1</i>	YPD, 30°C	(Young et al. 2015)	GSM1700886, GSM1700891
<b><i>tif3Δ</i> SC experiment</b>				
BY4741	WT	SC, 30°C to 15°C shift	(Sen et al. 2016)	GSM2178823, GSM2178824
FJZ052	<i>tif3Δ</i>	SC, 30°C to 15°C shift	(Sen et al. 2016)	GSM2178825, GSM2178826
<b>Analysis of cycloheximide effects in WT cells (X1 cycloheximide and no cycloheximide data only)</b>				
BY4741	WT	YPD, 30°C	(Gerashchenko and Gladyshev 2014)	GSM1439588, GSM1439584

## Ribosome profiling datasets references

- Gerashchenko MV, Gladyshev VN. 2014. Translation inhibitors cause abnormalities in ribosome profiling experiments. *Nucleic Acids Res* **42**: e134.
- Guydosh NR, Green R. 2014. Dom34 rescues ribosomes in 3' untranslated regions. *Cell* **156**: 950-962.
- Sen ND, Zhou F, Harris MS, Ingolia NT, Hinnebusch AG. 2016. eIF4B stimulates translation of long mRNAs with structured 5' UTRs and low closed-loop potential but weak dependence on eIF4G. *Proc Natl Acad Sci U S A* **113**: 10464-10472.

Sen ND, Zhou F, Ingolia NT, Hinnebusch AG. 2015. Genome-wide analysis of translational efficiency reveals distinct but overlapping functions of yeast DEAD-box RNA helicases Ded1 and eIF4A. *Genome Res* **25**: 1196-1205.

Young DJ, Guydosh NR, Zhang F, Hinnebusch AG, Green R. 2015. Rli1/ABCE1 Recycles Terminating Ribosomes and Controls Translation Reinitiation in 3'UTRs In Vivo. *Cell* **162**: 872-884.